

Quiz 6
(Section 1.7)

Name: _____

1. Find the domain of the function $f(x) = \frac{2x+3}{\sqrt{x-7}}$

2. Let $f(x) = 2 + \frac{1}{x}$ and $g(x) = \frac{1}{x}$. Find

(a) $(f+g)(x)$

(b) $(f-g)(x)$

(c) $(fg)(x)$

(d) $\left(\frac{f}{g}\right)(x)$



3. Let $f(x) = x^2+1$ and $g(x) = x^2-3$. Find

(a) $(f \circ g)(x)$

(b) $(g \circ f)(x)$

(c) $(f \circ g)(3)$

(d) $(g \circ f)(3)$